L Number	Hite	Search Text	DB	Time stamp
1	248	microparticles and matrix and protein and	USPAT;	2003/05/13 18:22
1	240	sugar and lipid	EPO; JPO;	2003,03,13 10.22
		bugur und lipiu	DERWENT	•
6	174	microparticles and matrix and albumin and	USPAT;	2003/05/13 18:16
١		lactose and lipid	EPO; JPO;	
		Taccobe and Tipia	DERWENT	
11	123	microparticles and matrix and albumin and	USPAT;	2003/05/13 18:19
	123	lactose and phospholipid	EPO; JPO;	
		raccose and phosphoripia	DERWENT	
21	5	((microparticles and matrix and albumin and	USPAT;	2003/05/13 18:22
		lactose and phospholipid) and anesthetic)	EPO; JPO;	
		and bupivacaine	DERWENT	
16	27	(microparticles and matrix and albumin and	USPAT;	2003/05/13 18:20
		lactose and phospholipid) and anesthetic	EPO; JPO;	
			DERWENT	
26	366	particles and matrix and albumin and lactose	USPAT;	2003/05/13 18:19
,		and phospholipid	EPO; JPO;	
			DERWENT	
31	35	(particles and matrix and albumin and	USPAT;	2003/05/13 18:23
-		lactose and phospholipid) and anesthetic	EPO; JPO;	
			DERWENT	1
36	6	((particles and matrix and albumin and	USPAT;	2003/05/13 18:20
		lactose and phospholipid) and anesthetic)	EPO; JPO;	
		and bupivacaine	DERWENT	
41	3151	matrix and protein and sugar and lipid	USPAT;	2003/05/13 18:22
			EPO; JPO;	[
			DERWENT	1
46	123	matrix and protein and sugar and lipid and	USPAT;	2003/05/13 18:22
		anesthetic	EPO; JPO;	
			DERWENT	
51	13	(matrix and protein and sugar and lipid and	USPAT;	2003/05/13 18:24
		anesthetic) and bupivacaine	EPO; JPO;	1
			DERWENT	
56	675	liposomes and anesthetic	USPAT;	2003/05/13 18:34
			EPO; JPO;	1
			DERWENT	0000/05/10 10 04
61	89	(liposomes and anesthetic) and bupivacaine	USPAT;	2003/05/13 18:34
			EPO; JPO;	
		(1)	DERWENT	2002/05/12 18:24
66	50	; · •	USPAT;	2003/05/13 18:24
		and matrix	EPO; JPO; DERWENT	
~ -	6	((liposomes and anesthetic) and bupivacaine	USPAT;	2003/05/13 18:26
71	•	and matrix) and lipid and albumin and	EPO; JPO;	2003/03/13 18.20
		lactose	DERWENT	
76	11	((liposomes and anesthetic) and bupivacaine	USPAT;	2003/05/13 18:29
, 0	11	and matrix) and lipid and protein and sugar	EPO; JPO;	
		and made in die representation of the bugar	DERWENT	
81	۰ ا	chondroine adj sulfate	USPAT;	2003/05/13 18:29
			EPO; JPO;	
			DERWENT	
86	0	chondroine adj sulphate	USPAT;	2003/05/13 18:29
			EPO; JPO;	
			DERWENT	
91	o	chondroine	USPAT;	2003/05/13 18:29
	1		EPO; JPO;	
			DERWENT	
96	0	glycosamin adj glucan	USPAT;	2003/05/13 18:30
			EPO; JPO;	
		•	DERWENT	
101	2	glycosamino adj glucan	USPAT;	2003/05/13 18:30
			EPO; JPO;	
			DERWENT	
106	18	glycosaminoglucan	USPAT;	2003/05/13 18:31
			EPO; JPO;	
			DERWENT	
111	0	glycosaminoglucan and liposome	USPAT;	2003/05/13 18:31
			EPO; JPO;	
		1	DERWENT	

			Y*10===	
116	0	glycosaminoglucan and microparticle	USPAT;	2003/05/13 18:31
		·	EPO; JPO; DERWENT	
121	0	glycosaminoglucan and microparticles	USPAT;	2003/05/13 18:31
121		grycosaminograean and micropartities	EPO; JPO;	2003/03/13 10.31
			DERWENT	
126	12	glycosaminoglucan and particles	USPAT;	2003/05/13 18:33
			EPO; JPO;	
			DERWENT	
131	964	hyaluronic and liposomes	USPAT;	2003/05/13 18:34
		•	EPO; JPO;	
126	291	hyaluronic and microparticles	DERWENT USPAT;	2003/05/13 18:34
136	291	Nyaruronic and microparticles	EPO; JPO;	2003/03/13 18:34
			DERWENT	
141	121	(hyaluronic and liposomes) and anesthetic	USPAT;	2003/05/13 18:34
		<u> </u>	EPO; JPO;	
			DERWENT	
146	45	((hyaluronic and liposomes) and anesthetic)	USPAT;	2003/05/13 18:35
		and bupivacaine	EPO; JPO;	
, , ,		///h	DERWENT	2002/05/12 10 00
151	30	(((hyaluronic and liposomes) and anesthetic) and bupivacaine) and matrix	USPAT; EPO; JPO;	2003/05/13 19:22
		and bupivacaine, and macrix	DERWENT	
156	760	pore adj forming and matrix	USPAT;	2003/05/13 19:23
			EPO; JPO;	, -,
			DERWENT	
161	50		USPAT;	2003/05/13 19:23
		matrix	EPO; JPO;	
1	3.5		DERWENT	2002/05/12 10 22
166	37	pore adj forming adj agent and lactose and matrix	USPAT; EPO; JPO;	2003/05/13 19:23
		INACTIX	DERWENT	
171	15	pore adj forming adj agent and lactose and	USPAT;	2003/05/13 19:24
		matrix and microparticle	EPO; JPO;	,,
		•	DERWENT	
-	2	daniel and kohane	USPAT;	2003/05/09 15:54
			EPO; JPO;	
	7.4.4	mishasi and line	DERWENT	2002/05/00 15.57
-	144	michael and lipp	USPAT; EPO; JPO;	2003/05/09 15:57
1 1			DERWENT	
-	1484	robert and langer	USPAT;	2003/05/09 15:57
		3 .	EPO; JPO;	
		•	DERWENT	
-	103	robert adj5 langer	USPAT;	2003/05/09 16:22
			EPO; JPO;	
	0.0	narticles and dinalmitoulphocobatidulcholing	DERWENT USPAT;	2003/05/09 16:26
-	88	particles and dipalmitoylphosphatidylcholine and albumin and lactose and drug	EPO; JPO;	2003/03/03 10:20
1		and drawing and recope and aray	DERWENT	
-	0	(particles and	USPAT;	2003/05/09 16:25
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and glycosaminoglycan	DERWENT	
-	0	(particles and	USPAT;	2003/05/09 16:24
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and glycosamino adj glycan	DERWENT	
_	2114	, , ,	USPAT;	2003/05/09 16:25
	2114	3-7-0-000000000000000000000000000000000	EPO; JPO;	= 300, 00, 00 10.20
			DERWENT	
-	483	glycosaminoglycan and particles	USPAT;	2003/05/09 16:25
			EPO; JPO;	
		(-7	DERWENT	0000/05/00 16 05
-	72	(glycosaminoglycan and particles) and lipid	USPAT;	2003/05/09 16:25
		and sugar and albumin	EPO; JPO; DERWENT	
[_	o	(((glycosaminoglycan and particles) and	USPAT;	2003/05/09 16:26
[lipid and sugar and albumin) and lactose)	EPO; JPO;	
		and dipalmitoylphosphatidylcholine	DERWENT	

-	67	(particles and	USPAT;	2003/05/09 16:26
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
	1	and lactose and drug) and diagnostic	DERWENT	
-	0	(particles and	USPAT;	2003/05/09 16:28
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and ratio adj5 lipid	DERWENT	
		adj5 protein adj5 sugar		
-	72	(particles and	USPAT;	2003/05/09 16:29
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and diameter	DERWENT	
-	1270	1-6 and micrometers	USPAT;	2003/05/09 16:29
			EPO; JPO;	
			DERWENT	
-	14	(particles and	USPAT;	2003/05/09 16:30
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and bupivacaine	DERWENT	
-	13	(particles and	USPAT;	2003/05/09 16:33
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and anesthetic	DERWENT	
_	2	(particles and	USPAT;	2003/05/09 16:34
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and anticonvulsant	DERWENT	
_	9	(particles and	USPAT;	2003/05/09 16:34
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and vasodilator	DERWENT	
_	5	(((glycosaminoglycan and particles) and	USPAT;	2003/05/09 16:35
		lipid and sugar and albumin) and lactose)	EPO; JPO;	1
		and phosphatidylcholine	DERWENT	
_	52		USPAT;	2003/05/09 16:37
		and sugar and albumin) and lactose	EPO; JPO;	1
		,	DERWENT	
_	25	(particles and	USPAT;	2003/05/09 16:39
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		and lactose and drug) and diagnostic adj	DERWENT	
		agent		
-	20	[- 	USPAT;	2003/05/09 16:40
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
	1	and lactose and drug) and prophylactic adj	DERWENT	
		agent		
_	9	((particles and	USPAT;	2003/05/09 16:41
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		and lactose and drug) and diameter) and	DERWENT	
		micrometers	1	
_	35	1	USPAT;	2003/05/09 16:59
		dipalmitoylphosphatidylcholine and albumin	EPO; JPO;	
		and lactose and drug) and spray adj drying	DERWENT	
-	0		USPAT;	2003/05/09 17:00
		sugar adj5 lipid	EPO; JPO;	
			DERWENT	
-	0	microparticles and matrix and ptotein and	USPAT;	2003/05/13 18:15
	1	sugar and lipid	EPO; JPO;	1
		_ *	DERWENT	}
-	0	microparticles and matrix adj5 protein adj5	USPAT;	2003/05/09 17:00
		sugar adj5 lipid	EPO; JPO;	
			DERWENT	1
-	247	microparticles and matrix and protein and	USPAT;	2003/05/09 17:01
		sugar and lipid	EPO; JPO;	1
			DERWENT	
-	7	(microparticles and matrix and protein and	USPAT;	2003/05/09 17:01
	1	sugar and lipid) and encapsulated adj5 drug	EPO; JPO;	1
			DERWENT	

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TOTAL

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FILE COVERS 1907 - 13 May 2003 VOL 138 ISS 20 FILE LAST UPDATED: 12 May 2003 (20030512/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s particles and lipid and protein and sugar and bupivacaine

643778 PARTICLES

1 PARTICLESES

643778 PARTICLES

(PARTICLES OR PARTICLESES)

223104 LIPID

181097 LIPIDS

278176 LIPID

(LIPID OR LIPIDS)

1508080 PROTEIN

1019140 PROTEINS

1743431 PROTEIN

(PROTEIN OR PROTEINS)

219304 SUGAR

117927 SUGARS

286299 SUGAR

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=> d 1-3 ibib abs hitrn

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:314746 CAPLUS

DOCUMENT NUMBER:

136:330564

TITLE: Lipid-protein-sugar

microparticles for drug delivery

INVENTOR(S): Kohane, Daniel S.; Lipp, Michael M.; Langer, Robert S.

Massachusetts Institute of Technology, USA PATENT ASSIGNEE(S):

PCT Int. Appl., 84 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent . English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----------_____ WO 2002032398 A2 20020425 WO 2001-US32378 20011016

A3 20030109 WO 2002032398

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR

US 2002150621 20021017 US 2001-981020 20011016 A1 US 2000-240636P P 20001016 PRIORITY APPLN. INFO.:

Lipid-protein-sugar microparticles (LPSPs)

are provided as a vehicle for drug delivery. Any therapeutic, diagnostic, or prophylactic agent may be encapsulated in a lipidprotein-sugar matrix to form microparticles. Preferably the diam. of the LPSP ranges from 50 to 10 .mu.m. The particles may be prepd. by using any known lipid (e.g., DPPC), protein (e.g., albumin), or sugar (e.g., lactose). Methods of prepg. and administering the particles are also provided. Methods of providing a nerve block are also provided by administering LPSPs with a local anesthetic (e.g., bupivacaine) within the vicinity of a nerve. Title microparticles (DPPC-albuminlactose) were prepd. contg. bupivacaine. The drug release from the particles was complete within 24 h.

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS L1

DOCUMENT NUMBER: 137:174753

Biocompatibility of lipid-protein-TITLE:

sugar particles containing bupivacaine in the epineurium

AUTHOR(S): Kohane, Daniel S.; Lipp, Michael; Kinney, Ramsey C.;

Anthony, Douglas C.; Louis, David N.; Lotan, Noah;

Langer, Robert

Department of Pediatrics, Massachusetts General CORPORATE SOURCE:

Hospital and Harvard Medical School, Boston, MA,

, 02114, USA

Journal of Biomedical Materials Research (2002), SOURCE:

59(3), 450-459

CODEN: JBMRBG; ISSN: 0021-9304

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal English LANGUAGE:

Novel lipid-protein-sugar particles

(LPSPs) are potentially biocompatible because they are composed of naturally occurring ingredients and their expected tissue dwell times are relatively short. In this research, the authors used histol. sections to study tissue reaction to LPSPs (4.4-.mu.m median diam.) when used for sciatic nerve block in the rat. As a ref., the authors compared LPSPs to 60-.mu.m median diam. poly(lactic-co-glycolic) acid (PLGA) microspheres (110,000 MW PLGA, glycolic/lactic ratio 65:35). Four days after injection, both particle types produced acute inflammation within the confines of the injectate, inflammation in adjacent tissues, and myotoxicity. Bupivacaine-free particles did not display myotoxicity, and inflammation in adjacent tissues was reduced. 2 wk, inflammation from LPSPs had almost disappeared, whereas PLGA microspheres had a foreign-body giant cell reaction until at least 8 wk after injection. In contrast, 3.6-.mu.m median diam., 20,000-MW PLGA microspheres produced a primarily histiocytic reaction 2 wk after injection. In summary, the LPSPs and PLGA microspheres studied herein have excellent biocompatibility, but tissue reaction to the former is of much shorter duration. Myotoxicity and inflammation of surrounding tissue is largely attributed to bupivacaine. Foreign-body giant cells may be attributed to particle size rather than a specific reaction to PLGA.

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2001:2220 CAPLUS

DOCUMENT NUMBER:

134:212565

TITLE:

Sciatic nerve blockade with lipid-

protein-sugar particles
containing bupivacaine

AUTHOR (S):

Kohane, Daniel S.; Lipp, Michael; Kinney, Ramsey C.;

Lotan, Noah; Langer, Robert

CORPORATE SOURCE:

Department of Pediatrics, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA Pharmaceutical Research (2000), 17(10), 1243-1249

SOURCE:

CODEN: PHREEB; ISSN: 0724-8741 Kluwer Academic/Plenum Publishers

PUBLISHER: Klum
DOCUMENT TYPE: Jou:

LANGUAGE:

Journal English

AB The efficacy of lipid-protein-sugar

particles (LPSPs) in providing prolonged duration local anesthesia by percutaneous injection was assessed. Ten % (wt./wt.) bupivacaine LPSPs (60% dipalmitoylphosphatidylcholine) were 4.4 .+-. 0.39 .mu.m in diam., with a tap d. of 0.11 .+-. 0.04 g/mL. These LPSPs and 50% (wt./wt.) PLGA microspheres had comparable durations of sensory blockade (468 .+-. 210 min vs. 706 .+-. 344 min, p = 0.08), although the LPSPs produced a much lesser duration of motor blockade (508 .+-. 258 min vs. 1062 .+-. 456 min, p = 0.005). Systemic toxicity was minimal in both groups. LPSPs provide sensory blockade durations comparable to those from PLGA microspheres, with a smaller amt. of drug loading. Motor blockade is shorter with LPSPs than with PLGA microspheres. LPSPs appear to be suitable for extended nerve blockade. Given their size and low d., they may be useful for topical anesthesia of the airway.

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST SESSION 17.94 18.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

23

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TOTAL

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 9, 2003 (20030509/UP).

=> s particles and lipid and protein and sugar and encapsulated

8 PARTICLES

0 LIPID

7 PROTEIN

1 SUGAR

1 SUGARS

1 SUGAR

(SUGAR OR SUGARS)

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=> s particles and lipid and sugar and protein

8 PARTICLES

0 LIPID

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(SUGAR OR SUGARS)

7 PROTEIN

L3 0 PARTICLES AND LIPID AND SUGAR AND PROTEIN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION			
FULL ESTIMATED COST	0.18	18.33			
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION			
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FILE COVERS 1907 - 13 May 2003 VOL 138 ISS 20 FILE LAST UPDATED: 12 May 2003 (20030512/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s particles and lipid and sugar and protein
        643778 PARTICLES
             1 PARTICLESES
        643778 PARTICLES
                 (PARTICLES OR PARTICLESES)
        223104 LIPID
        181097 LIPIDS
        278176 LIPID
                 (LIPID OR LIPIDS)
        219304 SUGAR
        117927 SUGARS
        286299 SUGAR
                 (SUGAR OR SUGARS)
       1508080 PROTEIN
       1019140 PROTEINS ·
       1743431 PROTEIN
                 (PROTEIN OR PROTEINS)
           110 PARTICLES AND LIPID AND SUGAR AND PROTEIN
T.4
=> s L4 and encapsulated
         26260 ENCAPSULATED
             5 L4 AND ENCAPSULATED
L5
=> dL5 1-5 ibib abs hitrn
DL5 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> d L5 1-5 ibib abs hitrn
     ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                         2002:973822 CAPLUS
                         Effectiveness of muscimol-containing microparticles
TITLE:
                         against pilocarpine-induced focal seizures
AUTHOR (S):
                         Kohane, Daniel S.; Holmes, Gregory L.; Chau, Ying;
                         Zurakowski, David; Langer, Robert; Cha, Byung Ho
CORPORATE SOURCE:
                         Pediatric Intensive Care Unit, MassGeneral Hospital
                         for Children, Children's Hospital Harvard Medical
                         School, Boston, MA, USA
SOURCE:
                         Epilepsia (2002), 43(12), 1462-1468
                         CODEN: EPILAK; ISSN: 0013-9580
                         Blackwell Publishing, Inc.
PUBLISHER:
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Purpose: To investigate the efficacy of in situ lipid-
     protein-sugar particles (LPSPs) in mitigating
     the epileptogenic and histol. effects of intrahippocampal pilocarpine in
     rats. Methods: LPSPs with and without muscimol were produced by
     spray-drying, sized by Coulter counter, and muscimol content detd. by
     high-pressure liq. chromatog. (HLPC). Particles, free muscimol
     or saline, were injected into the hippocampi of Sprague-Dawley rats before
     40 mM pilocarpine, and seizure activity was scored. The trajectories of
     behavioral scores between groups were compared with two-way repeated
     measures anal. of variance. Animals were killed after 2 wk. Brain
     sections were stained (Timm and thionin) and scored. Results: LPSPs were
     4 to 5 .mu.m in diam., and contained 0 or 2% (wt/wt) muscimol. In vitro,
     muscimol was released over a 5-day period. Intrahippocampal injections of
     normal saline and blank LPSPs did not deter seizure activity from
     pilocarpine. The rise of the trajectory in behavior scores in animals
     given LPSPs contg. 5 .mu.g muscimol was significantly slower than in those
     receiving saline, blank particles, or 5 .mu.g of unencapsulated
     muscimol. There was less apparent neuronal injury and CA3 and
     supragranular mossy fiber sprouting in hippocampi of animals receiving
```

muscimol-contg. particles than in animals that did not receive muscimol. Hippocampi of animals that received 5 .mu.g of encapsulated muscimol showed less supragranular sprouting than did those receiving 5 .mu.g of unencapsulated muscimol, but showed no difference in cell loss or CA3 sprouting. Conclusions: Focally delivered biodegradable microparticles loaded with muscimol are effective in reducing seizure activity from pilocarpine in animals and mitigate the histol. effects.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:314746 CAPLUS

DOCUMENT NUMBER: 136:330564

TITLE: Lipid-protein-sugar

microparticles for drug delivery

INVENTOR(S): Kohane, Daniel S.; Lipp, Michael M.; Langer, Robert S.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR

US 2002150621 A1 20021017 US 2001-981020 20011016 PRIORITY APPLN. INFO.: US 2000-240636P P 20001016

AB Lipid-protein-sugar microparticles (LPSPs)

are provided as a vehicle for drug delivery. Any therapeutic, diagnostic, or prophylactic agent may be encapsulated in a lipid-protein-sugar matrix to form microparticles. Preferably the diam. of the LPSP ranges from 50 to 10 .mu.m. The particles may be prepd. by using any known lipid (e.g., DPPC), protein (e.g., albumin), or sugar (e.g., lactose). Methods of prepg. and administering the particles are also provided. Methods of providing a nerve block are also provided by administering LPSPs with a local anesthetic (e.g., bupivacaine) within the vicinity of a nerve. Title microparticles (DPPC-albumin-lactose) were prepd. contg. bupivacaine. The drug release from the particles was complete within 24 h.

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:314744 CAPLUS

DOCUMENT NUMBER: 136:330527

TITLE: Lipid-protein-sugar

particles for delivery of nucleic acids

INVENTOR(S): Kohane, Daniel S.; Anderson, Daniel G.; Langer, Robert

s.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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    WO 2002032396
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                          20020425
    WO 2002032396
                    A3
                          20030206
        W: CA, JP
        RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE, TR
                                         US 2001-981460
                                                         20011016
    US 2002150626
                          20021017
                     A1
                                      US 2000-240698P P 20001016
PRIORITY APPLN. INFO.:
    Lipid-protein-sugar particles
     (LPSPs) are provided as a vehicle for the delivery of nucleic acids. Any
    polynucleotide (e.g., DNA, RNA) may be encapsulated in a
    lipid-protein-sugar matrix to form
    microparticles. Preferably the diam. of the LPSP ranges from 50 nm to 10
     .mu.m. The particles may be prepd. using any known
    lipid (e.g., DPPC), protein (e.g., albumin), or
    sugar (e.g., lactose). Methods of prepg. the particles
    and administering the particles for gene therapy are also
    provided. Preferably the methods of prepg. the LPSPs do not significantly
    damage the polynucleotide to be delivered.
    ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:622166 CAPLUS
DOCUMENT NUMBER:
                       131:254402
                       Site-specific binding system, imaging compositions and
TITLE:
                       methods
                       Lanza, Gregory M.; Wickline, Samuel A.
INVENTOR(S):
PATENT ASSIGNEE(S):
                       Barnes-Jewish Hospital, USA
                      · U.S., 37 pp., Cont.-in-part of U.S. 5,780,010.
SOURCE:
                       CODEN: USXXAM
DOCUMENT TYPE:
                       Patent
                       English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:
                                    APPLICATION NO. DATE
    PATENT NO.
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                          19991123
                                        WO 1999-US11491 19990525
    WO 2000071172
                         20001130
        W: AU, BR, CA, JP, NO
        RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE
                                        AU 1999-40975
    AU 9940975
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                          20001212
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                          20021030
                                        EP 1999-924489
                                                       19990525
    EP 1251877
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        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI, CY
PRIORITY APPLN. INFO.:
                                      US 1995-488743
                                                      A2 19950608
                                      US 1996-647277
                                                    A2 19960523
                                      WO 1999-US11491 A 19990525
    A method for ligand-based binding of lipid encapsulated
AΒ
    particles to mol. epitopes on a surface in vivo or in vitro
    comprises sequentially administering (a) a site-specific ligand activated
    with a biotin activating agent; (b) an avidin activating agent; and (c)
    lipid-encapsulated particles activated with a
    biotin activating agent, whereby the ligand is conjugated to the
    particles through an avidin-biotin interaction and the resulting
    conjugate is bound to the mol. epitopes on such surface. The conjugate is
    effective for imaging by x-ray, ultrasound, magnetic resonance, positron
    emission tomog., or nuclear imaging. Compns. for use in ultrasonic
    imaging of natural or synthetic surfaces and for enhancing the acoustic
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THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

reflectivity thereof are also disclosed.

3

REFERENCE COUNT:

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1996:401728 CAPLUS

DOCUMENT NUMBER: 125:67764

TITLE: Targeted delivery via biodegradable polymers

INVENTOR(S): Roth, Laurence A.; Herman, Stephen Jack

PATENT ASSIGNEE(S): Focal, Inc., USA SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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Delivery of bioactive mols. such as nucleic acid mols. encoding a AB protein can be enhanced by immobilization of the bioactive mol. in a polymeric material adjacent to the cells where delivery is desired, where the bioactive mol. is encapsulated in a vehicle such as liposomes which facilitates transfer of the bioactive mols. into the targeted tissue. Targeting of the bioactive mols. can also be achieved by selection of an encapsulating medium of an appropriate size whereby the medium serves to deliver the mols. to a particular target. For example, encapsulation of nucleic acid mols. or biol. active proteins within biodegradable, biocompatible polymeric microparticles which are appropriately sized to infiltrate, but remain trapped within, the capillary beds and alveoli of the lungs can be used for targeted delivery to these regions following administration to a patient by infusion or injection. Thus, expression vector pRSVLUC, contg. firefly luciferase cDNA, was dissolved in a 10% soln. of gelling prepolymer having a PEG core with .apprx.5 lactate residues at each end, capped by acrylate groups. This soln., which also contained eosin Y as photoinitiator, was incorporated into pos. charged liposomes contg. the cationic lipid analog, 1,2-dioleoyloxy-3-(trimethylammonium)propane. The liposomes were introduced into the rat carotid artery in vivo and gelated by illumination with green light. After 3 days, gene expression was detected in the artery.

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	21.94	40.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-3.26	-5.21

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 9, 2003 (20030509/UP).